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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/607,892	06/27/2003	Kurt Thiessen	100110947-1	7238
7590 06/01/2005 HEWLETT-PACKARD COMPANY Intellectual Property Administration P.O. Box 272400 Fort Collins, CO 80527-2400			EXAMINER	
			TRAN, LY T	
			ART UNIT	PAPER NUMBER
				FAFER NUMBER
1 of Connis, CO 80327-2400			2853	
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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(a)			
	Application No.	Applicant(s)			
Office Action Summers	10/607,892	THIESSEN ET AL.			
Office Action Summary	Examiner	Art Unit			
	Ly T. TRAN	2853			
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet w	ith the correspondence address			
A SHORTENED STATUTORY PERIOD FOR F THE MAILING DATE OF THIS COMMUNICAT - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communicati - If the period for reply specified above is less than thirty (30) days - If NO period for reply is specified above, the maximum statutory - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ION. FR 1.136(a). In no event, however, may a loon. In a reply within the statutory minimum of thir period will apply and will expire SIX (6) MON statute, cause the application to become Af	reply be timely filed ty (30) days will be considered timely. ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed on	21 April 2005.				
	This action is non-final.				
·	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4) ⊠ Claim(s) <u>1-3,5-15,17-27,29-38 and 40-49</u> 4a) Of the above claim(s) <u>5,6,17,18,29,30</u> 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1-3,7-15,19-27,31-38,40,42-49</u> 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction	<u>0,40 and 41</u> is/are withdrawn fro				
Application Papers					
9)☐ The specification is objected to by the Ex	aminer.				
10)☐ The drawing(s) filed on is/are: a)☐	☐ accepted or b)☐ objected to	by the Examiner.			
Applicant may not request that any objection					
Replacement drawing sheet(s) including the one of the o					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority docu 2. Certified copies of the priority docu 3. Copies of the certified copies of the application from the International E * See the attached detailed Office action for	uments have been received. uments have been received in A e priority documents have beer Bureau (PCT Rule 17.2(a)).	Application No I received in this National Stage			
Attachment(s)					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-9) 	· · · · · · · · · · · · · · · · · · ·	Summary (PTO-413) (s)/Mail Date			
Notice of Draftsperson's Patent Drawing Review (P10-9 Information Disclosure Statement(s) (PTO-1449 or PTO/Paper No(s)/Mail Date		Informal Patent Application (PTO-152)			

DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of species 3 (figure 6) in the reply filed on 11/17/04 is acknowledged.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-3, 7-15 and 19-24 are rejected under 35 U.S.C. 102(b) as being anticipated by Bradshaw et al. (USPN 6,264,295).

With respect to claims 1 and 13, Bradshaw discloses a method an an apparatus of printing within a circular area of a media comprising:

- Positioning a print head (fig.2: element 210) including at least one column
 of nozzles above the circular area of the media (element 201), including
 orienting the at least one column of nozzles substantially perpendicular to
 a radius of the circular extended below the print head (Fig.2, Fig.3)
- Rotating the media relative to the print head (Fig.2: element 201, 208, 214)

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Printing at least one arcuate print pattern within the circular area of the
 media with the print head while rotating the media (Column 8: line 10-15)

 Printing substantially perpendicular to the radius of the circular area of the media (fig.2 shows the print head prints circular line on the CD in the direction along the line 214 while the DC is rotating, the circular line along the direction 214 is perpendicular to the radius of the circular area of the CD)

With respect to claims 2 and 14, Bradshaw discloses wherein positioning the print head includes orienting the at least one column of nozzles substantially parallel to a tangent of the circular area at the radius of the circular area (Fig.2, 3).

With respect to claim 3 and 15, Bradshaw disclose printing at least one arcuate print pattern includes printing thee at least one arcuate print pattern along an arc center about a center of the circular area of the media and printing at least one arcuate print pattern (Column 7: line 60-65, Column 8: line 9-14).

With respect to claims 7 and 19, Bradshaw discloses at least one column of nozzles includes a first column of nozzle and a second column of nozzles spaced from and oriented substantially parallel to the first column, and wherein printing at least one arcuate print pattern includes printing a first arcuate print pattern with the first column and a second pattern with the second column (Fig.3: element 304, Column 7: line 60-65).

With respect to claims 8, 9, 20 and 21, Bradshaw discloses that moving the print head and the media relative to each other in a direction substantially parallel to the

radius of the circular area of the media moving the print head and the media relative to each other including moving the print head along the radius of the media (Fig.2 shows the platter rotating by arrow 214 and the head 210 is moving along by arrow 212).

With respect to claims 10-12 and 22-24, Bradshaw discloses the circular area of the media included an annular area of the media, the media includes an optical data storage disk and the media includes a label for an optical storage disk (Column 4: line 60-61; Column 5: line 35-42).

3. Claim 47 is rejected under 35 U.S.C. 102(b) as being anticipated by Yuji (JP0631906).

With respect to claim 47, Yuji discloses a system for processing an optical data disk comprising:

- Means for rotating the optical data disk (Page 3; claim 3)
- Means for simultaneously printing on the optical data storage disk from a first side of the disk and recording to the disk from a second side of the disk opposite the first side as the disk rotates (fig.2: element 1, 24, 4, Page 6:[0008]).
- printing substantially perpendicular to the radius of the circular area of the media (fig.3, 4 shows the print head prints circular line on the CD while the DC is rotating, the circular line is perpendicular to the radius of the circular area of the CD)

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 25-27, 29-38 and 42-46 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bradshaw et al. (USPN 6,264,295) in view of Yuji (JP 0631906).

With respect to claims 25 and 36, Bradshaw discloses a method of printing on an optical data disk comprising positioning a print head adjacent a first side of the optical data (Fig.2: element 210, 201); a print head including orienting a column of nozzles of the print head substantially perpendicular to a radius of the optical storage disk extended below the print head (Fig.2: element 210, fig.3: element 304); rotating the optical data disk relative to the print head (Fig.2) and printing at least one arcuate print pattern on the optical data disk with the print head while rotating the disk (fig.2) and printing substantially perpendicular to the radius of the circular area of the media (fig.2 shows the print head prints circular line on the CD in the direction along the line 214 while the DC is rotating, the circular line along the direction 214 is perpendicular to the radius of the circular area of the CD)

With respect to claims 26 and 37, Bradshaw discloses wherein positioning the print head includes orienting the at least one column of nozzles substantially parallel to a tangent of the circular area at the radius of the circular area (Fig.2, 3).

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With respect to claims 27 and 38, Bradshaw disclose printing at least one arcuate print pattern includes printing thee at least one arcuate print pattern along an arc center about a center of the circular area of the media (Column 7: line 60-65, Column 8: line 9-14).

With respect to claims 34 and 45, Bradshaw discloses that moving the print head along the radius of the disk (Fig.2: element 210, 212)

However, Bradshaw fails to teach a recording head adjacent a second side of the optical data disk opposite the first side and recording the optical data storage disk with the recording head while rotating the disk and limitation of claims 31-33 and 35.

Yuji teaches a recording head adjacent a second side of the optical data disk opposite the first side and recording the optical data storage disk with the recording head while rotating the disk (Fig.2: element 6, 1, Page 12: [0022]).

With respect to claims 31 and 42, Yuji discloses printing on the optical data storage disk and recording to the disk includes simultaneously printing and recording (page 6: [0008]).

With respect to claims 32, 35, 43 and 46, Yuji discloses printing on the disk and recoding on the disk includes printing and recording while rotating the disk at a predetermined speed (Page3: claim 3).

With respect to claim 33, Yuji discloses the print head and the disk relative to each other and the recording head and the disk relative to each other in a direction parallel to the radius of the disk (Fig.2: element 1).

With respect to claim 44, Yuji discloses the print head and the recording head are adapted to move relative to the disk in a direction substantially parallel to the radius of the disk (Fig.2: element 1, 4, 24).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to have the printing head and recording head one on each side of the disk to printing and recording data onto the disk as taught by Yuji. The motivation of doing so is manufacturing processes without taking a long time.

5. Claims 48 and 49 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bradshaw et al. (USPN 6,264,295) in view of Yuji (JP 0631906).

Bradshaw discloses a print head (fig.2: element 210) including at least one column of nozzles above the circular area of the media (element 201), including orienting the at least one column of nozzles substantially perpendicular to a radius of the circular extended below the print head (Fig.2, Fig.3) and means for rotating the disk (fig.2).

However, Bradshaw fails to teach simultaneously printing on the optical data storage disk from a first side of the disk and recording to the disk from a second side of the disk opposite the first side as the disk rotates

Yuji discloses simultaneously printing on the optical data storage disk from a first side of the disk and recording to the disk from a second side of the disk opposite the first side as the disk rotates (fig.2: element 1, 24, 4, Page 6:[0008]) and the recording head positioned on the second side of the disk (Fig.2: element 6, 4, 1)

It would have been obvious to one having ordinary skill in the art at the time the invention was made to have the printing head and recording head one on each side of the disk to printing and recording data onto the disk as taught by Yuji. The motivation of doing so is manufacturing processes without taking a long time.

Response to Arguments

Applicant's arguments filed 4/21/05 have been fully considered but they are not 6. persuasive.

Applicant's argument that Bradshaw and Yuji do not teach printing perpendicular toa radius of the media is not persuasive because refer to fig.2 of Bradshaw the print head prints circular line on the CD in the direction along the line 214 while the DC is rotating, the circular line along the direction 214 is perpendicular to the radius of the circular area of the CD) and refer to figure 3 and 4 of Yuji the print head prints circular line on the CD while the DC is rotating, the circular line is perpendicular to the radius of the circular area of the CD). Therefore, Bradshaw and Yuji disclose claimed invention.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ly T. TRAN whose telephone number is 571-272-2155. The examiner can normally be reached on M-F (7:30am-5pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Meier can be reached on 571-272-2149. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LT

May 27, 2005

Stephen D. Meier Primary Examiner